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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,278	12/10/2000	Jesse Jaejin Kim		3721

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Jesse Kim
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San Jose, CA 95132

EXAMINER
LEWIS, DAVID LEE

ART UNIT	PAPER NUMBER
2629	

MAIL DATE	DELIVERY MODE
09/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	09/734,278	KIM, JESSE JAEJIN	
	Examiner	Art Unit	
	DAVID L. LEWIS	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 May 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *10 December 2000* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Applicants petition to revive, filed on 3/7/2007, was granted on 5/13/2008.

2. Claims 1-20 are pending.

Response to Arguments

3. Applicant's arguments with respect to claims 1-20 filed on 8/30/2006 have been considered, are in part persuasive, but are moot in view of the new ground(s) of rejection. Rappaport et al. anticipates the claimed invention as rejected above.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. **Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Rappaport et al. (6971063).**

As in claim 1, Rappaport et al. teaches of a 3D graphics system, **figures 3 and 9, column 3 lines 54-67, column 6 lines 45-55, column 14 lines 15-43,**

comprising: a server to receive a 3D file, the 3D file conforming to one or more formats, **figure 9 item 100, column 8 lines 45-55, column 14 line 60 to column 15 line 6, column 16 lines 20-25;**

and a handheld device adapted to communicate with the server the 3D file, the handheld device capable of visualizing the 3D file, **figure 9 item 102, column 14 line 60 to column 15 line 6, column 18 lines 30-50.**

As in claim 2, Rappaport et al. teaches of, wherein the server performs file conversion and file compression, column 8 lines 3-55, column 13 lines 55-67, column 14 lines 1-35.

As in claim 3, Rappaport et al. teaches of, wherein code is stored on the server and downloaded to the handheld device as needed, column 14 lines 15-45, column 15 lines 3-6 and 20-40.

As in claim 4, Rappaport et al. teaches of, wherein the 3D rendering code is embedded in the handheld device, column 6 lines 42-65, column 7 lines 7-17 and 55-67.

As in claim 5, Rappaport et al. teaches of, wherein the handheld device handles recording, playback, editing, storage, conversion, management and transmission of a 3D graphics file from the handheld device to the server, column 14 lines 15-45, column 15 lines 1-6.

As in claim 6, Rappaport et al. teaches of, wherein the handheld device is a cellular phone, personal digital assistant, smart phone, or a resource-constrained mobile computer, column 6 lines 27-41.

As in claim 7, Rappaport et al. teaches of, wherein the server is connected to the Internet, column 16 lines 20-30, column 17 lines 20-35.

As in claim 8, Rappaport et al. teaches of a mobile 3D visualization system, **figures 3 and 9**,

comprising: a handheld device adapted to receive graphics files from a plurality of sources conforming to a plurality of file formats, **figure 9 item 102, column 8 lines 30-55, column 14 line 60 to column 15 line 6**;

and a server coupled to the handheld device, the server distributing the 3D graphics file to the device, **figure 9 item 100, column 14 lines 15-40, column 15 lines 1-40**.

As in claim 9, Rappaport et al. teaches of, wherein the server performs 3D file conversion and file compression, column 8 lines 3-55, column 13 lines 55-67, column 14 lines 1-35.

As in claim 10, Rappaport et al. teaches of, wherein the server contains code for the handheld device to convert, decompress, view, interact with, control and render 3D files, column 16 lines 19-25.

As in claim 11, Rappaport et al. teaches of, wherein the code is downloaded to the handheld device as needed, column 15 lines 1-6.

As in claim 12, Rappaport et al. teaches of, wherein the handheld device further comprises embedded code to perform conversion, decompression, viewing, interacting, controlling, and rendering of graphics files, column 6 lines 42-65, column 7 lines 7-17 and 55-67.

As in claim 13, Rappaport et al. teaches of software for a 3D graphics mobile device to visualize a 3D graphics file stored in one or more 3D file formats, **column 6 lines 42-67, column 8 lines 45-55**,

comprising: code to converting the file into a universal format, **column 7 lines 40-55**;

code to decompress the file, **column 8 lines 3-45, column 13 lines 55-67**;

and code to render the file into a 3D image, **column 7 lines 40-67**.

As in claim 14, Rappaport et al. teaches of, wherein the render code avoids the rendering of small details not observable on a mobile device screen to accelerate displaying the 3D image on the mobile device, column 7 lines 30-40.

As in claim 15, Rappaport et al. teaches of, further comprising code to perform resolution skipping operations on objects, column 7 lines 30-40, column 10 lines 20-35.

As in claim 16, Rappaport et al. teaches of, further comprising code to approximating an object as a sphere for purposes of lighting transformation, column 7 lines 18-30.

As in claim 17, Rappaport et al. teaches of, further comprising code to perform anti-aliasing operations only on stationary objects, column 6 lines 66-67, column 7 lines 1-6, said feature inherent to known cad systems.

As in claim 18, Rappaport et al. teaches of, further comprising code to perform frame skipping where, for even frames, only even lines are drawn and, for odd frames, only odd lines are drawn, column 6 lines 66-67, column 7 lines 1-6, said feature inherent to known cad systems.

As in claim 19, Rappaport et al. teaches of, further comprising code to perform world transformation operation only once for non-moving objects, column 6 lines 66-67, column 7 lines 1-6, said feature inherent to known cad systems.

As in claim 20, Rappaport et al. teaches of, wherein an input file format is converted into the universal file, column 7 lines 40-55.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(571) 272-7673**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Bipin Shalwala, can be reached on **(571) 272-7681**. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571)-273-8300.

3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: David L. Lewis

July 26, 2008

/David L Lewis/

Primary Examiner, Art Unit 2629